



SERVIÇO PÚBLICO FEDERAL

DEPARTAMENTO DE AVIAÇÃO CIVIL

BRAZILIAN AIRWORTHINESS DIRECTIVE

EFFECTIVE DATE:

15 Mar. 2006

AD No.:

2006-02-04

The following Airworthiness Directive (AD), issued by the Departamento de Aviação Civil (DAC) in accordance with provisions of Chapter IV, Title III of Código Brasileiro de Aeronáutica - Law No. 7,565 dated 19 December 1986 - and Regulamento Brasileiro de Homologação Aeronáutica (RBHA) 39, applies to all aircraft registered in the Registro Aeronáutico Brasileiro. No person may operate an aircraft to which this AD applies, unless it has previously complied with the requirements established herein.

AD No. 2006-02-04 - EMBRAER - Amendment 39-1121.

APPLICABILITY:

This Airworthiness Directive is applicable to the Embraer ERJ-170() aircraft models of serial numbers 17000001 thru 17000027.

CANCELLATION / REVISION:

Not applicable.

REASON:

It has been found the occurrence of integrated drive generators (IDG) power cables terminal lugs not adequately crimped, which could result in loss of both IDGs and consequently an electrical emergency.

Since this condition may occur in other airplanes of the same type and affects flight safety, a corrective action is required. Thus, sufficient reason exists to request compliance with this AD in the indicated time limit.

REQUIRED ACTION:

Detailed inspection, new sleeve installation and re-crimp, if necessary, of the IDG 1 and IDG 2 power cables terminal lugs.

COMPLIANCE:

Required as indicated below, unless already accomplished.

Within the next 600 flight hours after the effective date of this AD, perform a detailed inspection (DET) of the crimping of each IDG 1 and IDG 2 power cables terminal lugs, as follows:

- (a) Remove the sleeve and perform a detailed visual inspection (det) of the IDG 1 and IDG 2 power cables terminal lugs;
- (b) If the terminal lugs P/N G971NP have not been properly crimped, crimp it again using toll P/N Y-35 and the die set P/N U 4 CRT; and
- (c) Install a new sleeve P/N TFE-R-1-X on each terminal.

NOTE 1: Make sure that terminal lug P/N G971NP is crimped according to the Figure 2 of the Embraer Service Bulletin No. 170-24-0028.

NOTE 2: For the purpose of this AD, a detailed inspection (DET) is: "An intensive examination of a specific item, installation or assembly to detect damage, failure or irregularity. Available lighting is normally supplemented with a direct source of good lighting at an intensity deemed appropriate. Inspection aids such as mirrors, magnifying lenses, etc. may be necessary. Surface cleaning and elaborate access procedures may be required."

The detailed instructions and procedures to accomplish this AD are described in the Embraer Service Bulletin No. 170-24-0028, original issue, or further revisions approved by the CTA.

Record compliance with this AD in the applicable maintenance log book.

CONTACT:

For additional technical information, contact:

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APPROVAL:

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NOTE: Original in Portuguese language signed and available in the files of the Registro Geral de Aeronavegabilidade (RGA/TE-1/STE) of the Departamento de Aviação Civil.